Raúl Rodríguez

Fullstack Web Dev and DevOps Engineer

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Education

Computer Science Bachelor, *ITAM* ⧉
joint bachelor with Applied Mathematics. 50% schoolarship for academic performance.

Professional Experience

SRE & NODEJS BACKEND ENGINEER,
Centro Cultura Digital Mexico ⧉
2019 – 12/2024 | MX
I was hired to lead a new web development team. I architected a new system stack (**K8s + Linux + Docker, NodeJS, Svelte + React, GraphQL, MongoDB, Storybook, Gitlab CI/CD**). Also, I updated and keep maintaining over 20 legacy websites. Now, I'm in charge of creating CMS, API, and DB for new projects, next to monitoring and debugging problems for ongoing projects. We speed up launching 8 new Apps by reusing the structure for the CMS/API and developing the frontend using a Design System aproach. *(20 hrs/week)*

Senior Software Developer, *Yardzen* ⧉
01/2024 – 08/2024 | NY, US
I was hired to help with the **migration of legacy apps** (Express REST API, React) to the new current stack (**Docker, NestJS, NextJS**) while maintaining, adding, and improving the features of the applications. I was able to improve the development flow by optimizing the docker deployment cycle and speeding up the frontend development by introducing **StorybookJS** as the base of our **Design System**. This way improving, testing and developing **new frontend features was done 3 times faster.**

Dev Skills

Programing — Patterns, Algorithms & Data Structures, **Web design** — HTML, CSS, UX, **Database Admin** — Mongo and SQL, **Linux Admin** — Bash scripting, automatization, networking, monitoring, **JS & TS Developer** — NodeJS, NextJS, NestJS, React, Vue, Angular, Svelte, Typescript, **System & Cloud arquitect** — Microservices, DigitalOcean, AWS, Google Cloud, Azure, **Containerization & High-demand** — Docker, Kubernetes, **DevOps** — CI/CD, Monitoring, Error tracking, Testing, Observability

Languages

Spanish ● ● ● ● ●
Native

English ● ● ● ● ○
Living abrad, US and European Clients & TOEFL

TECH LEAD, *Rarus Health* ⧉

01/2023 – 02/2024 | Remote, Chile

I join the team as **Tech Lead and Solo Developer**. The project had won a hackathon on health issues and I helped **round up the idea, picking a stack,** develop a **POC** and deploying a **Beta version**. It is a **Vue** Web Platform, with a **NodeJS** backend, an **email server**, and **WordPress** Landing Site. The app has well-defined **role-based access, authentication,** and it is monitored using **Google Analytics and Grafan**a.

Web Developer, *PowerSwitchAction* ⧉

10/2024 – 01/2025 | US

I was hired to spark their yearly report ⧉ with a short timeline by improving and introducing **React** Components on their **Gatsby** Website linked to a **DatoCMS GraphQL API** . These components were developed to enhance the **UX** by including animation, parallax and sticky effects, interactive maps, and pop-up modals. *(Freelance)*

FULLSTACK WEB FRELANCE, *Logly* ⧉

07/2022 – present | US

Develop, debug and UX design **complex functionalities** for their ongoing project (**NodeJS + React + PostgreSQL**). *(by ticket)*

DOCKER & KUBERNETES TRAINING,
SPS Consulting Group

01/2022 – 08/2022 | Mexico

To improve their DevOps workflow. I prepared an **intensive** 40 hrs **introduction curse** to understand the benefits and test the main functionalities of **Docker and Kubernetes**.

DEVOPS CONSULTANT, *NxtIoT - NxtAgro* ⧉

01/2021 – present | MX

I was hired to migrate their project to a containerized and high-demand infrastructure. I created a **CI workflow** using **Gitlab and Docker**, **optimized** their heaviest **SQL queries**, and **debug** some code on their **Vue app**. I get a call when something needs debugging. I led the transition to a Kubernetes environment on Google Cloud GK, to tackle the traffic scaling with a flexible strategy that scales up or down when required *(by the hour)*

Own Projects

Co-founder & CTO - Vientos.coop,
PWA to enhence collaboration

2015 – 2019

Co-founder of a **Platform Coop** launched as a Progressive Web App (**PWA**) to connect activism projects with locals by mapping their needs and offerings to enhance collaboration on social topics. My thesis project turned into a social startup when meeting the right people. We designed the app using **agile and SCRUM** methodologies, **UX** research and tests, Pair Programming, and Sociocracy Circles. The **PWA** was coded using **NodeJS, PolymerJS, LXC, and MongoDB.**

Professor

Mobile, Web Apps, UX, *Centro ADM* ⧉

2018 – 2020

Algorithms and Web Development, *Telmex Hub* ⧉

01/2019 – 08/2019

Together with a colleague, we designed and imparted an intensive web development course to 50 students. It was 6 hours a day, all the way from algorithms and data structures, to git, HTML, CSS, and JS frameworks.

Bootcamp Expert, *Bedu* ⧉

2017 – 2020

I designed and imparted the Backend with NodeJS, Introduction to Databases, and UX design. Every student would have to create a full-stack project in 6 months. I got the YODA badge for helping other experts on their courses

MEAN Stack & MySQL intro, *MacTrainee* ⧉

2018 – 2021

Soft Skills

Group Management — Proficient

DIY / Self learner — Expert

Desition Workflow — Competent

Non-violent Communication — Proficient

Collaborative work — Proficient

Conflict Resolution — Competent

MICROSERVICE DEVELOPMENT AND MONITORING,
SPS Consulting Group
08/2022 – present | Mexico
To **extend the functionality of the Litmos Educational App**, I designed a **microservice system** where we could fetch data from Oracle Cloud buckets and consume Litmos API, work and store the **data**, show the data with better **visualization tools** on a **React** App, and trigger changes to the API when needed. All this, working on a single VM with **Docker containers, cron jobs, MySQL, and MongoDB**. *(by project)*

FULLSTACK WEB DEV, *Ozmo* ⌁
2018 | Mexico
MongoDB queries optimization by data normalization and graphics visualization on a **React** App.

FULLSTACK WEB DEVELOPER, *Sertech* ⌁
2017 – 2019 | Mexico
Using data mining and visualization to market intel, social network analysis, and political census. D3js, Mapbox, ElasticSearch, data crawling from social networks and newspapers (*20 hrs/week*)

WEB FREELANCE, *UN Women* ⌁
2018 | Costa Rica
I developed a data vizualization interactive app showing women participation statistics in Latinamerica. SVG, CSS, JS.

FULLSTACK WEB FREELANCE, *Borde Politico*
2017
Development of a PWA to visualize open goberment data, co-creation of legislation, and participatory democracy

SOFTWARE ENGINEER, *Mextra* ⌁
2014 | Neatherlands
Development of a .NET web app and SQL query design and optimization. Statistics and doctor-patient management for hospitals based in the Netherlands

DEV INTERN, *Hewlett Packard*
2013 | Mexico
I focus on speeding the process of creating client proposals using Excell Macros and a .NET web App. I created a website to review and auto-create PDF pre-approved proposals based on previously accepted proposals.

Interests

Cycling mobility, Garndening, Cooperatives, Veganism, Open knowledge, Solidarity Economies